

WHAT IS CLAIMED IS:

1. An air hose reel for storing an air hose and connecting the air hose with a pressurized air supply, comprising:
 - 5 a hollow reel housing having an aperture formed therein;
 - a flange mounted on an exterior of said reel housing, said flange including a first tubular portion extending outwardly from said reel housing and adapted to be connected to a source of pressured air, and a second tubular portion extending inside said reel housing and in fluid communication with said first tubular portion, said second tubular portion having an annular groove
10 formed in an exterior surface and an O-ring retained in said groove;
 - a pulley rotatably mounted inside said reel housing on an axis of rotation;
 - a nozzle mounted on said pulley, said nozzle having a tubular nozzle inlet receiving said second tubular portion, said O-ring sealing between said exterior
15 surface of said second tubular portion and an interior surface of said nozzle inlet, said nozzle having a nozzle outlet in fluid communication with said nozzle inlet, said nozzle outlet extending transverse to said axis of rotation; and
 - a reel hose being wound on said pulley, said reel hose having one end attached to
20 said nozzle outlet and an opposite end extending through said housing aperture.
2. The air hose reel according to claim 1 including an air supply hose attached to said first tubular portion of said flange.
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3. The air hose reel according to claim 1 including a return spring attached to said pulley for automatically rewinding said reel hose.
4. The air hose reel according to claim 1 including a handle extending from said
30 reel housing for hand carrying the air hose reel.

5. The air hose reel according to claim 1 including a mounting bracket releasably attached to said reel housing for attaching the air hose reel to a mounting surface.

6. An air hose reel for storing an air hose and connecting the air hose with a
5 pressurized air supply, comprising:

a hollow reel housing having first and second cup-shaped housing halves, each of
said housing halves having a generally inverted U-shaped handle portion
extending outwardly therefrom, said handle portions cooperating to form a
handle for hand carrying the air hose reel;

10 a generally U-shaped mounting bracket for attaching the air hose reel to a mounting
surface;

a rod extending through apertures formed in said mounting bracket and apertures
formed in at least one of said handle portions, said rod detachably attaching
said housing to said mounting bracket;

15 a flange mounted on an exterior of said second half of said housing, said flange
including a first tubular portion extending outwardly from said reel housing
and adapted to be connected to a source of pressured air, and a second
tubular portion extending inside said reel housing and in fluid
communication with said first tubular portion, said second tubular portion
20 having an annular groove formed in an exterior surface and an O-ring
retained in said groove;

a pulley rotatably mounted inside said reel housing on an axis of rotation;

a nozzle mounted on said pulley, said nozzle having a tubular nozzle inlet receiving
said second tubular portion, said O-ring sealing between said exterior
25 surface of said second tubular portion and an interior surface of said nozzle
inlet, said nozzle having a nozzle outlet in fluid communication with said
nozzle inlet, said nozzle outlet extending transverse to said axis of rotation;

a reel hose being wound on said pulley, said reel hose having one end attached to
said nozzle outlet and an opposite end extending through said housing
30 aperture; and

a return spring mounted in said pulley for automatically winding up said reel hose,
said return spring having one end attached to said pulley and an opposite
end fixed relative to said housing.

5 7. The air hose reel according to claim 6 including a nut releasably attached to said
rod and preventing removal of said rod from said mounting bracket apertures and said at
least one handle portion apertures.

8. The air hose reel according to claim 6 wherein said pulley includes a pair of
10 pulley halves each having a plurality of radially extending flanges at an outer edge thereof,
said flanges defining a space for retaining said reel hose.

9. The air hose reel according to claim 6 wherein said pulley includes a pair of
pulley halves each having a radially extending flange with openings at an outer edge
15 thereof, said flanges defining a space for retaining said reel hose.

10. The air hose reel according to claim 6 including a shaft mounted in said first
half of said reel housing, said shaft rotatably supporting said pulley.

20 11. The air hose reel according to claim 9 wherein said opposite end of said return
spring is attached to said shaft.

12. The air hose reel according to claim 6 including a hose clamp attaching said one
end of said reel hose to said nozzle outlet.

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13. The air hose reel according to claim 6 including a ball stop attached to said reel
hose adjacent said opposite end.

14. An air hose reel for storing an air hose and connecting the air hose with a
30 pressurized air supply, comprising:

a hollow reel housing having first and second cup-shaped housing halves, each of
said housing halves having a generally inverted U-shaped handle portion

extending outwardly therefrom, said handle portions cooperating to form a handle for hand carrying the air hose reel;

a generally U-shaped mounting bracket for attaching the air hose reel to a mounting surface;

5 a rod extending through apertures formed in said mounting bracket and apertures formed in at least one of said handle portions, said rod detachably attaching said housing to said mounting bracket;

a nut releasably attached to said rod and preventing removal of said rod from said mounting bracket apertures and said at least one handle portion apertures;

10 a flange mounted on an exterior of said second half of said housing, said flange including a first tubular portion extending outwardly from said reel housing and adapted to be connected to a source of pressured air, and a second tubular portion extending inside said reel housing and in fluid communication with said first tubular portion, said second tubular portion

15 having an annular groove formed in an exterior surface and an O-ring retained in said groove;

a pulley rotatably mounted inside said reel housing on an axis of rotation;

a nozzle mounted on said pulley, said nozzle having a tubular nozzle inlet receiving said second tubular portion, said O-ring sealing between said exterior surface of said second tubular portion and an interior surface of said nozzle inlet, said nozzle having a nozzle outlet in fluid communication with said nozzle inlet, said nozzle outlet extending transverse to said axis of rotation;

20 a reel hose being wound on said pulley, said reel hose having one end attached to said nozzle outlet by a hose clamp and an opposite end extending through said housing aperture;

25 a shaft mounted in said first half of said reel housing, said shaft rotatably supporting said pulley; and

a return spring mounted in said pulley for automatically winding up said reel hose, said return spring having one end attached to said pulley and an opposite

30 end attached to said shaft.

15. The air hose reel according to claim 14 wherein said pulley includes a pair of pulley halves each having a plurality of radially extending flanges at an outer edge thereof, said flanges defining a space for retaining said reel hose.

5 16. The air hose reel according to claim 14 wherein said nozzle includes a nozzle plate having said nozzle inlet and a nozzle tube having said nozzle outlet, a portion of said nozzle plate extending into said nozzle tube for fluid flow therethrough.

17. The air hose reel according to claim 14 including a ball stop attached to said
10 reel hose adjacent said opposite end.